







1                   19. A header comprising:  
2                   a destination appliance routing address  
3 string; and  
4                   a source content-type address string  
5 appended to the destination appliance routing address  
6 string.

1                   20. The header of claim 19 further comprising  
2 a destination content-type address string appended to  
3 the source content-type address string.

1                   21. The header of claim 19 further comprising  
2 an intermediate appliance routing address string  
3 appended to the destination appliance routing address  
4 string.

1                   22. A method for routing content, comprising:  
2 building a header comprising at least a  
3 source content-type address string and a destination  
4 appliance routing address string;  
5 encapsulating the content in the header;  
6 and  
7 transmitting the encapsulated content  
8 across a network to a destination appliance.

1                   23. The method of claim 22 further  
2 comprising:  
3 identifying the source content-type by  
4 parsing the header at the destination appliance;  
5 determining via a mapping algorithm what  
6 the target content-type should be based on the source  
7 content-type; and





3 a second table stored in the memory  
4 device identifying a resource on the destination  
5 appliance.

1 35. A gateway interface connected between a  
2 first network and a second network comprising:  
3 a memory device;  
4 a first table stored in the memory device  
5 comprising information identifying a destination  
6 appliance connected to the first network and routing  
7 information corresponding the destination appliance.

1 36. The gateway interface of claim 33 further  
2 comprising a second table of information stored in the  
3 memory device identifying a resource on the destination  
4 appliance.

1 37. A method for routing content, comprising:  
2 receiving source resource information;  
3 receiving destination appliance  
4 information;  
5 determining the destination appliance  
6 routing address string; and  
7 transmitting the content from a source  
8 resource to a destination appliance based on the  
9 destination appliance routing address string.

1 38. The method of claim 37 further  
2 comprising:  
3 receiving a request for a web page  
4 containing controls for the source resource;  
5 transmitting the web page to the screen;

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6 receiving signals to configure the source  
7 resource to transmit the content.

1 39. A system for routing content, comprising:  
2 a processor  
3 a screen connected to the processor;  
4 a memory device connected to the  
5 processor;  
6 a list of source resources displayed on  
7 the screen;  
8 a list of destination appliances  
9 displayed on the screen;  
10 a signal to the processor indicating one  
11 of the source resources displayed on the screen was  
12 selected;  
13 a signal to the processor indicating one  
14 of the destination appliances displayed on the screen  
15 was selected; and  
16 a table stored in the memory device  
17 having an entry for a destination appliance routing  
18 address corresponding to selected destination appliance.

1 40. A user interface, comprising:  
2 a screen;  
3 categories of sources of content  
4 displayed on the screen;  
5 subcategories of sources of content  
6 displayed on the screen corresponding to a selected  
7 category displayed on the screen;  
8 a list of content displayed on the screen  
9 corresponding to a selected subcategory; and



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1      41. A method for discovering appliances on a
2 network, comprising:
3         receiving a first message from an
4 appliance connected to the network;
5         if the message contains information
6 indicating how to route data to the appliance, then
7         placing an entry of the information into
8 a table;
9         if the message is requesting routing
10 information from other appliances, then
11         broadcasting routing information across
12 the network;

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1           42. The method of claim 41 further  
2 comprising:  
3           if the message is requesting routing  
4 information, then  
5           broadcasting a signal containing  
6 information describing how to route content to the  
7 appliance.

1                   43. The method of claim 42 wherein the  
2   routing information includes a signal containing  
3   information about a resource on the appliance.

1                   44. The method of claim 42 further  
2 comprising:  
3                   if the message indicates that the  
4 appliance is leaving the network, then

5 removing the entry for the appliance from  
6 the table.

1 45. The method of claim 44 further  
2 comprising:  
3 if the message is a signal indicating  
4 that the appliance is present on the network and the  
5 appliance has no entry in the table, then  
6 broadcasting a request across the network  
7 to the appliance asking the appliance to broadcast  
8 information describing how to route content to the  
9 appliance.

1 46. The method of claim 45 further  
2 comprising:  
3 if a specified time period has passed and  
4 no signal has been received from the appliance  
5 indicating that the appliance is still connected to the  
6 network, then removing the entry for the appliance from  
7 the table.

1 47. A system for discovering appliances on a  
2 network comprising:  
3 a network;  
4 a first appliance connected to the  
5 network; and  
6 a signal received by the first appliance  
7 from a second appliance connected to the network, the  
8 signal including routing information to route content to  
9 the second appliance and including the identity of the  
10 second appliance.

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1                   48. The system of claim 47 further  
2 comprising:  
3                   a table stored in a memory on the first  
4 appliance into which the routing information is entered.

1           49. The system of claim 48 wherein the signal  
2 includes information indicating the resources on the  
3 second appliance capable of receiving or transmitting  
4 content.

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